

## PCHS Curriculum Information – Year 11

<b>Course Title: GCSE Physics</b>	<b>Exam Board: AQA Specification Code: 8463</b>
<p><b>How will students be assessed?</b></p> <p>In GCSE Physics, students will sit two external exams at the end of Year 11. Each paper is worth 50% of their final GCSE grade. Exams will be 1 hour and 45 minutes in length requiring students to answer structured, closed short answer and open response questions. Questions will be knowledge based as well as drawing on the practical work that students have completed throughout the course.</p> <p><b>Physics GCSE Paper 1:</b> This will assess the topic areas of energy, electricity, the particle model of matter and atomic structure.</p> <p><b>Physics GCSE Paper 2:</b> This will assess the topic areas of forces, waves, magnetism and electromagnetism, space physics as well as some of the work previously done on energy and electricity.</p>	

### KEY CONTENT

<p><b>Half Term 1</b></p> <p><u>PHY6 Waves</u></p> <ul style="list-style-type: none"> <li>• Transverse and longitudinal</li> <li>• Properties of waves</li> <li>• Reflection and refraction</li> <li>• Sound</li> <li>• Uses of ultrasound</li> <li>• Electromagnetic spectrum</li> </ul>	<p><b>Half Term 4</b></p> <p><u>PHY8 Space</u></p> <ul style="list-style-type: none"> <li>• Star life cycles</li> <li>• Orbits</li> <li>• Expanding universe</li> <li>• The Big Bang</li> </ul> <p>Revision and exam preparation</p>
<p><b>Half Term 2</b></p> <p><u>PHY6 Waves</u></p> <ul style="list-style-type: none"> <li>• Infrared</li> <li>• Visible Light</li> <li>• Lenses</li> </ul> <p>Revision and mock exams</p>	<p><b>Half Term 5</b></p> <p>Revision and exam preparation</p>
<p><b>Half Term 3</b></p> <p><u>PHY7 Magnetism and Electromagnetism</u></p> <ul style="list-style-type: none"> <li>• Permanent and Induced Magnets</li> <li>• Magnetic Fields</li> <li>• Electromagnetism</li> <li>• Fleming's left hand rule (HT)</li> <li>• Motor effect (HT)</li> <li>• Generator effect (HT)</li> <li>• Transformers (HT)</li> </ul> <p><u>PHY8 Space</u></p> <ul style="list-style-type: none"> <li>• Our solar system</li> </ul>	<p><b>Half Term 6</b></p> <p>Revision and Exams</p>